

SEQUENCE LISTING

<110> Robert E. Klem

<120> METHODS AND COMPOSITIONS FOR TREATING A
CELL-PROLIFERATIVE DISORDER USING CRE DECOY OLIGOMERS, BCL-2
ANTISENSE OLIGOMERS, AND HYBRID OLIGOMERS THEREOF

<130> 10412-022-999

<140> To be assigned

<141> 2002-01-22

<150> 60/263,244

<151> 2001-01-22

<160> 43

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Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala	
20 25 30	
gga gat gtg ggc gcc gcg ccc ccg ggg gcc gcc ccc gca ccg ggc atc	144
Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile	
35 40 45	
ttc tcc tcc cag ccc ggg cac acg ccc cat cca gcc gca tcc cgc gac	192
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp	
50 55 60	
ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc	240
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala	
65 70 75 80	
gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg gtc cac ctg gcc	288
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala	
85 90 95	
ctc cgc caa gcc ggc gac gac ttc tcc cgc cgc tac cgc ggc gac ttc	336
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe	
100 105 110	
gcc gag atg tcc agc cag ctg cac ctg acg ccc ttc acc gcg cgg gga	384
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly	
115 120 125	
cgc ttt gcc acg gtg gtg gag gag ctc ttc agg gac ggg gtg aac tgg	432
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp	
130 135 140	
ggg agg att gtg gcc ttc ttt gag ttc ggt ggg gtc atg tgt gtg gag	480
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu	
145 150 155 160	
agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg	528
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp	
165 170 175	
atg act gag tac ctg aac cgg cac ctg cac acc tgg atc cag gat aac	576
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn	
180 185 190	
gga ggc tgg gat gcc ttt gtg gaa ctg tac ggc ccc agc atg cgg cct	624
Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro	
195 200 205	
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Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala	
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ctg gtg gga gct tgc atc acc ctg ggt gcc tat ctg agc cac aag	717
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<211> 239

<212> PRT
 <213> Homo Sapiens

<400> 21

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Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
          35          40          45
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
          50          55          60
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala
          65          70          75          80
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala
          85          90          95
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe
          100          105          110
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly
          115          120          125
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp
          130          135          140
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
          145          150          155          160
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp
          165          170          175
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn
          180          185          190
Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro
          195          200          205
Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala
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Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Ser His Lys
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<221> CDS

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 1          5          10          15

aag tac atc cat tat aag ctg tcg cag agg ggc tac gag tgg gat gcg      96
Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala
          20          25          30

gga gat gtg ggc gcc gcg ccc ccg ggg gcc gcc ccc gca ccg ggc atc      144
Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile
          35          40          45

ttc tcc tcc cag ccc ggg cac acg ccc cat cca gcc gca tcc cgc gac      192
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp
          50          55          60

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ccg gtc gcc agg acc tcg ccg ctg cag acc ccg gct gcc ccc ggc gcc	240
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala	
65 70 75 80	
gcc gcg ggg cct gcg ctc agc ccg gtg cca cct gtg gtc cac ctg gcc	288
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Val Val His Leu Ala	
85 90 95	
ctc cgc caa gcc ggc gac gac ttc tcc cgc cgc tac cgc ggc gac ttc	336
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe	
100 105 110	
gcc gag atg tcc agc cag ctg cac ctg acg ccc ttc acc gcg cgg gga	384
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly	
115 120 125	
cgc ttt gcc acg gtg gtg gag gag ctc ttc agg gac ggg gtg aac tgg	432
Arg Phe Ala Thr Val Val Glu Leu Phe Arg Asp Gly Val Asn Trp	
130 135 140	
ggg agg att gtg gcc ttc ttt gag ttc ggt ggg gtc atg tgt gtg gag	480
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu	
145 150 155 160	
agc gtc aac cgg gag atg tcg ccc ctg gtg gac aac atc gcc ctg tgg	528
Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp	
165 170 175	
atg act gag tac ctg aac cgg cac ctg cac acc tgg atc cag gat aac	576
Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn	
180 185 190	
gga ggc tgg gta ggt gca tct ggt gat gtg agt ctg ggc	615
Gly Gly Trp Val Gly Ala Ser Gly Asp Val Ser Leu Gly	
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<210> 23
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Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile	
35 40 45	
Phe Ser Ser Gln Pro Gly His Thr Pro His Pro Ala Ala Ser Arg Asp	
50 55 60	
Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala	
65 70 75 80	
Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Ala	
85 90 95	
Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Gly Asp Phe	
100 105 110	
Ala Glu Met Ser Ser Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly	
115 120 125	
Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp	
130 135 140	
Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu	

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Ser	Val	Asn	Arg	Glu	Met	Ser	Pro	Leu	Val	Asp	Asn	Ile	Ala	Leu	Trp
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Met	Thr	Glu	Tyr	Leu	Asn	Arg	His	Leu	His	Thr	Trp	Ile	Gln	Asp	Asn
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